



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 15] नई बिल्ली, शनिवार, अप्रैल 15, 1978 (चैत्र 25, 1900)

No. 15] NEW DELHI, SATURDAY, APRIL 15, 1978 (CHAITRA 25, 1900)

इस भाग में भिन्न पृष्ठ संख्या वाली जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS & DESIGNS

Calcutta, the 15th April 1978

CORRIGENDA

(1)

In the Gazette of India, Part III, Section 2, dated 5th November, 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 911, column 1, line 3, against No. 143340—for "PRODUCTION UNSATURATED" read "PRODUCTION OF UNSATURATED".

(2)

In page 912, column 2, line 16, against No. 143349—for Patent Office, Calcutta. Read Patent Office, Delhi Branch.

(3)

In page 913, column 1, line 3, against No. 143351—for "FILED" read "GFI FILED".

(4)

In page 914, column 1, line 12, against No. 143356—for Patent Office, Calcutta. read Patent Office, Delhi Branch.

In page 915, under the heading 'PRINTED SPECIFICATION PUBLISHED'. In Column 1 line 2—for 95897 read 95987.

In column 2, delete line 5—insert 97528, 97541, 97546, 97549, 97582, 97583, 97649, 97668, 97902.

(2)

In the Gazette of India, Part III, Section 2, dated the 12th November 1977, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 929, column 1, line 2 against No. 143367—for '609C' read 'C09c'.

(2)

In page 930, column 1, line 12, against No. 143373—delete Application No. 1229/Cal/75 filed June 21, 1975.

(3)

In page 930, column 2, line 3, against No. 143374—insert 'DYEING' after REACTIVE.

(4)

In page 930, column 2, line 2, against No. 143375—for 'To2, 7/00' read H02, 7/0, F16c 7/00

(5)

In page 931, column 2, line 10, against No. 143378—for 'September 30, 1975' read 'September 30, 1975'.

(6)

In page 931, column 2, line 1, against No. 143379—for '32' read '32F'.

(7)

In page 932, column 1, line 3, against application No. 2061/Cal/74. for Patent Office, Calcutta, read Patent Office, Delhi Branch.

(8)

In page 933, column 1, line 16, against No. 143387—for Patent Office, Calcutta, read Patent Office, Delhi Branch.

(3)

In the Gazette of India, Part III, Section 2, dated the 19th November 1977, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 944, column 2, line 2, against No. 143393—for 'D06—1/14' read 'D061, 1/14'.

(2)

In page 946, column 1, after line 9, against No. 143399—insert Application No. 536/Cal/76 filed March 27, 1976.

(4)

In the Gazette of India, Part III, Section 2, dated the 26th November 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 957, column 1, line 6, against No. 143225—for 'ESTABLISHMENTS' read 'ESTABLISHMENTS'.

(2)

In page 960, column 1, line 8, against No. 143440—for filed May 19, 1976, read 'filed May 19, 1975'.

(5)

In the Gazette of India, Part III, Section 2, dated the 10th December 1977, under the heading 'COMPLETE SPECIFICATIONS ACCEPTED'.

(1)

In page 988, column 2, line 6, against No. 143482—for 'FIVES-CALL' read 'FIVES-CAIL'.

(2)

In page 988, column 2, line 9, against No. 143483—for Patent Office, Calcutta, read Patent Office, Delhi Branch.

(3)

In page 990, column 2, line 2, against No. 143493—for 'C01,' read 'G01,'.

(4)

In page 990, column 2, line 2, against No. 143494—for 'C01,' read 'G01,'.

insert Inventors:—PHOOL CHAND SAXENA AND SANTARAM RANGNATH GAIKWAD' after line 8.

(5)

In page 990, column 2, line 6, against No. 143495—for 'WATCH ON CLOCK' read 'WATCH OR CLOCK'.

(6)

In page 993, column 1, line 5, against No. 143504—for 'AMEMICAN' read 'AMERICAN'.

(1)

In the Gazette of India, Part III, Section 2, dated the 17th December 1977, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(2)

In page 1004, column 1, line 2, against No. 143531—for Int. cl. 11/08, 11/70, B29<sub>u</sub>, 9/06, read Int. cl. C08, 11/08, 11/70, B29, 9/06.

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under the Section 135 of the Act.

9th March 1978

253/Cal/78. Gulf Research & Development Company. Separation of Solids from coal liquids with intermittent addition of an additive.

254/Cal/78. Gulf Research & Development Company. Separation of solids from coal liquids with an additive blend.

255/Cal/78. Gulf Research & Development Company. Separation of solids from coal liquids using an additive.

256/Cal/78. Michelin & Cie (Compagnie Generale des Etablissements (Michelin). Inflation valve.

10th March 1978

257/Cal/78. OAK Industries Inc. High current rotary switch with auxiliary timing switch.

258/Cal/78. Nippon Steel Corporation. A shaft furnace.

259/Cal/78. United Technologies Corporation. Inert carrier drying and coating process.

260/Cal/78. Brass Arts India Private Limited. A folding chair.

13th March 1978

261/Cal/78. Sherritt Gordon Mines Limited. Leaching of metal sulphides. (March 15, 1977).

262/Cal/78. Bunker Ramo Corporation. Electrical Connector.

263/Cal/78. Mrityunjoy Roy. A combination-container for cosmetics.

264/Cal/78. Zoecon Corporation. Novel compositions.

265/Cal/78. Texaco Development Corporation. Production of purified synthesis gas and carbon monoxide.

14th March 1978

266/Cal/78. Standard Telephones and Cables Limited. Improvements in or relating to optical fibre manufacture. (March 24, 1977).

267/Cal/78. Gutehoffnungshutte Sterkrade Aktiengesellschaft. Multi-bay steel production plant with one or more electric arc furnaces.

268/Cal/78. Shell Internationale Research Maatschappij B.V. Process and reactor for the partial combustion of finely divided solid fuel.

269/Cal/78. Asahi Kasei Kogyo Kabushiki Kaisha. Process for electrolytic dimerization of N-substituted pyridinium salt.

270/Cal/78. Weatherford/Lamb, Inc. Method of and apparatus for making up a threaded connection.

271/Cal/78. Siemens Aktiengesellschaft. Improvements in or relating to wheels for the step-by-step feed of a data carrier. (June 14, 1977).

272/Cal/78. Dyckerhoff and Widmann Aktiengesellschaft. Device for simultaneously stressing a number of tension elements.

273/Cal/78. R. Bhasin. A locking device.

15th March 1978

274/Cal/78. C. P. Nazir. Vision improving disc.

275/Cal/78. Sunjit R. Mukherjee. Jute fabric reinforced by high density polyethylene or polypropylene tapes.

276/Cal/78. Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft. An electrical device for providing protection against rodents or reptiles.

277/Cal/78. A. Jaudt. Adjustable packing assembly.

278/Cal/78. Hoechst Aktiengesellschaft. Stable and storable aqueous dispersions of primary aromatic amines and their use.

279/Cal/78. Hitachi Ltd. Electric insulating apparatus.

23rd February 1978

280/Cal/78. M. H. Desai. Method of constructing a building with means for compacting the soil after the building has been constructed.

50/Bom/78. Ahmedabad Textile Industry's Research Association. A device or instrument for tracing profiles of three dimensional cams.

APPLICATION FOR PATENTS FILED AT THE  
(DELHI BRANCH)

24th February 1978

148/Del/78. Science Union ET Cie, Societe Francaise DE Recherche Medicale. Process for preparing new pyrrolidine derivatives. (February, 25, 1977).

149/Del/78. Interrox. Super-oxidised solid sodium perborate and processed for its manufacture.

150/Del/78. Council of Scientific and Industrial Research. A process for preparation of a blasting agent for mining tunnelling and other excavation work.

25th February 1978

151/Del/78. Council of Scientific and Industrial Research. Improvements in or relating to winning nickel from serpentine containing traces or nickel.

27th February 1978

152/Del/78. Mohan Ortmann &amp; Herbst Ltd. A crown cork sealing machine.

153/Del/78. Mohan Ortmann &amp; Herbst Ltd. A filler.

154/Del/78. Societe D'Etudes DE Machines Thermiques S.E.M.T. Improvements in or relating to method and device for improving the efficiency of internal combustion engines.

155/Del/78. Bayer Aktiengesellschaft. Transfer printing process.

156/Del/78. Shell Internationale Research Maatschappij B.V. Process for the preparation of hydrocarbons.

157/Del/78. Shell Internationale Research Maatschappij B.V. Process for the preparation of hydrocarbons.

158/Del/78. Union Carbide Corporation. Liquid-gas contact ing tray.

28th February 1978

159/Del/78. Fosco Trading AG. Breaker cores. (March 1, 1977).

160/Del/78. USM Corporation. Iathe apparatus.

161/Del/78. Dornier -System GmbH. Collector panel for solar energy.

162/Del/78. Ciba-Geigy AG. Compositions, which promote plant growth and protect plants, based on oxime ethers and oxide esters.

1st March 1978

163/Del/78. Produits Chimiques Ugine Kuhlmann. Acetylene black with high electrical conductivity and high absorptive power.

164/Del/78. The Standard Oil Company. Synthesis of maleic anhydride.

APPLICATION FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

22nd February 1978

47/Bom/78. A. R. Moghe. A solid state cartridge for soldering guns and/or heat sealing appliances.

48/Bom/78. A. R. Moghe. A novel solid-state self-regulating heater cartridge and method of manufacturing and using such cartridges in heating appliances.

49/Bom/78. Kirloskar Oil Engines Limited. An improved piston of a direct injection diesel engine.

51/Bom/78. P. R. Patil. A novel tapping machine.

24th February 1978

52/Bom/78. L. P. Khuthia. Pin carrier attachment.

53/Bom/78. Manik Metals &amp; Trading Co. Private Limited. Improved pressure cooker.

27th February 1978

54/Bom/78. Birla Research Institute for Applied Sciences. A process for the manufacture of dissolving pulp with reduced air and stream pollution.

55/Bom/78. J. B. Shah. Hot food trolley.

28th February 1978

56/Bom/78. Dr. S. K. Sanghani. A device for transport of goods or passengers to replace the time honoured bullock cart and attachable either to an ordinary cycle or bullocks.

1st March 1978

57/Bom/78. D. K. Ramjibhai. A device for automobiles vehicles to measure level of fuel (i.e. Petrol or Diesel) and lubricating oil.

58/Bom/78. S. G. Keluskar. O Ring seal for container lid.

59/Bom/78. Hindustan Lever Limited. Fabric softening compositions. (March 2, 1977).

60/Bom/78. H. S. Mandani. A testing machine.

2nd March 1978

61/Bom/78. Aaren Advertising Private Limited. A placard arrangement for roadside advertising.

62/Bom/78. A. R. Moghe. A novel Memory device and method of manufacturing such devices.

63/Bom/78. The Secretary, Central Silk Board, (Ministry of Industry) Government of India. A novel tasar reeling machine.

3rd March 1978

64/Bom/78. Ko-Plastics. Protecting device.

4th March 1978

65—Bom/78. Kirloskar Oil Engines Limited. Improvements in or relating to internal combustion engines.

66/Bom/78. Khadi and Village Industries Commission, Gobar Gas Research and Development Centre. Gas plants for the production of gas from gobar, cattle dung and other wastes.

## ALTERATION OF DATE

144237. } Ante-dated 7th September, 1974.  
140/Mas/76. }144257. } Ante-dated 1st February, 1974.  
1670/Cal/76. }144258. } Ante-dated 1st February, 1974.  
161/Cal/76. }

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patent Rules, 1972 before the expiry of the said period of four months given

notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Khan Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 50D & 61-I & 61K. 144233.  
Int. Cl.-F26b 3/06, 17/32.

#### A DEVICE FOR COOLING OR DRYING SOLIDS.

*Applicant & Inventor* : RAMAN SHUNMUGAM PILLAI, OF NO. 12, CHELLANDIAMMAN KOIL STFET, DINDIGUL, TAMIL NADU, INDIA.

Application No. 201/Mas/75 filed December 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 26 Claims.

A device for cooling or drying solids comprising a rotatably supported tube having an inlet end for feeding solids thereto and an outlet end for the discharge of the solids thereat; means for rotating the tube; at least one spiralling member fixed to the inner periphery of the part of the tube near the inlet end for agitating the solids fed thereto and also for thrusting them towards the outlet end during rotation of the tube; a plurality of fins fixed to the inner periphery of the remaining part of the tube for further agitating the solids and also for gradually urging them towards the outlet end during rotation of the tube; and either of the following means namely (i) known means for passing air through the tube for cooling the solids or (ii) known means for heating the tube for drying the solids, during their travel towards the outlet end.

CLASS 101B & I. 144234  
Int. Cl.-B63b 35/44; E02b 17/00.

#### A BUOYANT STRUCTURE

*Applicant & Inventor* : VIJIAM SOSHUA, OF 2, RAJENDRAN COLONY, SALIGRAMAN P.O., MADRAS-600 093, TAMIL NADU, INDIA.

Application No. 215/Mas/75 filed December 30, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 9 Claims.

A buoyant structure comprising at least one buoyant vessel having at least one chamber containing water; at least one buoyant member a float on the water within, with a part thereof projecting out of the chamber; and at least one platform resting on the projecting part of the buoyant member, so as to be almost stably supported thereon.

CLASS 86B & C 144235  
Int. Cl. A47b 9/18 37/00

#### AN IMPROVED COLLAPSIBLE FURNITURE A COT TABLE, TEAPOY OR THE LIKE.

*Applicant & Inventor* : SHANKAR GUANAGOUDA PATH, C/O. MR. H. A. PATH, SHIGGAON 581205, DHARWAR DIST. KARNATAKA.

Application No. 67/Mas/76 filed April 15, 1976.

Addition to No. 25/Mas/76.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 3 Claims.

An improved collapsible furniture such as a cot, table, teapoy, or the like as claimed in claim 1 of parent Indian Application No. 25/Mas/76, wherein the leg assembly is comprised of two pairs of sections, each pair of sections being pivotally mounted, and the top of the section of one pair being connected to the top of the section of the other pair by retaining means, such as a rod or the like, and wherein means such as hook-like structures are provided on the top assembly to retain the said rod or like means.

CLASS 153. 144236.

Int. Cl.-B24d 3/22, 3/28, 5/02.

#### IMPROVEMENTS IN OR RELATING TO GRINDING AND POLISHING WHEELS.

*Applicant* : CARBORUNDUM UNIVERSAL LTD., OF TIRUVOTTIYUR, MADRAS-600019, TAMIL NADU, INDIA.

*Inventors* : LAKSHMINARAYANA RANGANATHAN AND DR. NATASAN KALYANARAMAN.

Application No. 76/Mas/76 filed April 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 4 Claims. No drawings.

A process of making a grinding and polishing hard wheel characterised by mixing abrasive powder with natural or synthetic rubber, phenolic resins such as phenol formaldehyde and sulphur, disintegrating the resulting mixture in a disintegrator, moulding the disintegrated mix to the required size and shape, and further characterised by heating the moulded article in a hot press at a temperature of around 160°C and curing the hot pressed article in an oven between 30°C and 160°C.

CLASS 155B. 144237.

Int. Cl. D06m 15/16.

#### A PROCESS TO PROLONG THE ABRASION RESISTANCE OF CELLULOSIC FIBRES.

*Applicant* : THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION, COIMBATORE, AERODROME P.O., COIMBATORE-14, TAMIL NADU, INDIA.

*Inventors* : KASTHURISWAMY SRIVENIVASAN AND AYIDUDY RAMASUBRAMANIA IYER KALYANARAMAN.

Application No. 140/Mas/76 filed July 30, 1976.

Division of Application No. 114/Mas/73 filed September 7, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 3 Claims. No drawings.

A process to prolong the abrasion resistance of cellulosic fibres comprising of impregnating the said cellulosic fibres with a solution of upto 10% of polyethylene terephthalate in trifluoro acetic acid, ortho-chlor phenol, or hot meta cresol, removing the excess solution from the said cellulosic fibres and drying the same by known means.

CLASS 40F 144238.

Int. Cl. F28d 5/00, I 28g 9/00.

#### HEAT EXCHANGER WITH GAS SOLIDS MIXTURES.

*Applicant* : BAYER AKTIONGESELLSCHAFT, OF FRANKFURT, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : KLEMENS FASCHINSKI, WERNER EHLER AND KARI BRANDLE.

Application No. 247/Cal/75 filed February 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

In a process for the production of an article of manufacture the step of indirect heat-exchange between a solids-containing gas or liquid and a wall of a heat-exchanger wherein a solids-containing gas or liquid to be cooled or heated is introduced into and flows through a heat-exchange zone defined by a rotationally symmetrical wall and wherein a flushing medium is introduced separately from the solids-containing gas or liquid through apertures in a rotatable arm adapted to the shape of the wall of the heat-exchanger onto the inner surfaces of the heat-exchanger in such a way that the wall is kept substantially free from solid deposits.

CLASS 154D. 144239.

Int. Cl.-B41n 9/00.

IMPROVEMENTS RELATING TO CYLINDERS FOR-  
PRINTING MACHINES.

Applicant : CANATHANE ROLLER CORPORATION  
LIMITED, 5 VANLEY CRESCENT, DOWNSVIEW, ON-  
TARIO, CANADA.

Inventor : WILLIAM BOYD DEMPSTER.

Application No. 1895/Cal/75 filed October 3, 1975.

Convention date October 7, 1974/(210873/74) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A method of manufacturing a blanket for use on a cylinder of a printing machine, the cylinder having a predetermined outside diameter and the method comprising the steps of :—

centrifugally casting a hollow cylindrical body using a castable material which is selected from the group comprising : liquid polymeric systems and liquid prepolymeric systems such as herein described capable of forming macromolecular structures having elastomeric properties; and, after said material has formed the macromolecular structure, cutting the cylindrical body from end to end to form a naturally curved blanket adapted to be wrapped around and secured to the curved surface of a printing cylinder.

CLASS 321c. 144240.

Int. Cl.-C07c 69/00.

PREPARATION OF ETHERS OF MONOSACCHARIDES.

Applicant : STRATEGIC MEDICAL RESEARCH CORP.,  
OF 1655, WEST JACKSON BLVD., CHICAGO, ILLINOIS  
60612, UNITED STATES OF AMERICA.

Inventors : PAUL GORDON, BRUCE RONSEN AND  
SHRIKANT VISHNU KULKARNI.

Application No. 496/Cal/76 filed March 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

38 Claims.

A method of preparing an ethereally substituted monosaccharide comprising the step of reacting :

(1) a monosaccharide derivative having the general formula  $\Delta-O-H$ , wherein O is oxygen, H is hydrogen and  $\Delta$  is the residue of a monosaccharide selected from the group consisting of pentoses, hexoses and heptoses which has been derivatized with at least one substance selected from the group consisting of (1-a) at least one aliphatic alcohol containing 1-18 carbon atoms to produce an acetal group at the site of at least one available hydroxyl residue, (1-b) at least one aldehyde containing 1-18 carbon atoms to produce at least one acetal group at the site of at least one available hydroxyl residue, (1-c) at least one ketone containing 1-18 carbon atoms to produce at least one ketal group at the site of at least one available hydroxyl residue, and (1-d) at least one organic acid residue containing 1-18 carbon atoms to produce an ester group at the site of at least one available hydroxyl residue, and (1-d) at least one organic acid residue containing 1-18 carbon atoms

to produce an ester group at the site of at least one available hydroxyl residue, with;

(2) an organic halide having the general formula Y — X, wherein X is selected from the group consisting of chlorine, bromine and iodine and Y is selected from the group consisting of (2-a) cyclic monovalent nitrogen containing organic radicals and residua, and (2-b) monovalent organic radicals and residua having the formula  $-R_1-B$  wherein B is selected from the group consisting of  $-N-R_1$ ,  $-O-R_1$  and  $-S-R_1$ ,  $R_1$  is a divalent organic radical having a linear carbon chain length of about 1-7 carbon atoms,  $R_1$  and  $R_2$  are selected from the group consisting of  $-H$ ,  $-OH$ ,  $-SH$ , halogen and monovalent organic radicals and residua having a linear carbon chain length of about 1-7 carbon atoms,  $R_1$  is selected from the group consisting of  $-H$  and monovalent organic radicals and residua having a linear carbon chain length of about 1-7 carbon atoms, N is nitrogen, O is oxygen, S is sulfur and H is hydrogen, to produce an ethereally substituted monosaccharide derivative having the formula  $A-O-Y$  wherein A and Y are as above defined,

the said monosaccharide derivative (1) and the said organic halide (2) being reacted at an elevated reaction temperature such as herein described while dissolved in an anhydrous organic solvent in the presence of a solid anhydrous strong inorganic base of a metal selected from the group consisting of the alkali metals and the alkaline earth metals.

CLASS 55F & 83A. 144241.

Int. Cl.-C12b 1/08.

PROCESS FOR THE PRODUCTION OF MICROBIAL CELLS USABLE AS FOOD SOURCE.

Applicant : PHILLIPS PETROLEUM COMPANY, OF  
BARTLESVILLE, STATE OF OKLAHOMA, UNITED  
STATES OF AMERICA.

Inventors : DONALD OLIVER HITZMAN AND KUGENE HERMAN WEGNER.

Application No. 933/Cal/576 filed May 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A process for the production of microbial cells which comprises aerobically culturing a microorganism in a nutrient medium and introducing an alcohol having from 1 to 6 carbon atoms into said nutrient medium as a main carbon source, said microorganism being capable of assimilating alcohol as the main source of carbon, and separating and recovering the microbial cells produced, the nutrient medium and alcohol being maintained in a foamed condition.

CLASS 32F. 144242.

Int. Cl. C07d 33/34.

A PROCESS FOR PREPARING 1-ACYL-1, 2, 3, 4-TETRAHYDRO-6-QUINOLINOLS.

Applicant : STERLING DRUG INC., OF 90 PARK  
AVENUE, NEW YORK, STATE OF NEW YORK, UNITED  
STATES OF AMERICA.

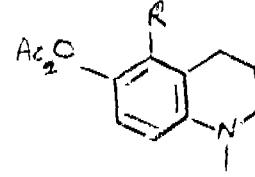
Inventor : DENIS MAHLON BAILEY.

Application No. 996/Cal/76 filed June 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A process for preparing a compound of the formula I.



(herein) where  $AC_2$  is haloacetyl, dihaloacetyl or trihaloacetyl with halo being chloro or bromo, R is hydrogen, chloro

or bromo and  $AC_1$  is hydrogen,  $AC_1$  alkanoyl having from one to sixteen carbon atoms benzoyl, 2 (or 3) thenoyl, 2 (or 3) furoyl or N-(loweralkyl) carbamoyl, which comprises reacting a 1, 2, 3, 4-tetrahydro-5-R-6-( $AC_1O$ )-quinoline where in R and  $AC_1$  are as above with an acyl halide of the formula  $AC_1-X$  where X is chloride or bromide.

CLASS 32F, & 55E. 144243.

Int. Cl.-C07c 91/16.

**PROCESS FOR PREPARING 1-TERT.-BUTYLAMINO-3-(2, 5-DICHLOROPHOENOXY)-2-PROPANOL.**

*Applicant* : RICHTER GEDEON VEGYESZETI GYAR RT., OF 19-21, GYOMROI UT, BUDAPEST X, HUNGARY.

*Inventors* : DR. ANDOR HAJOS, DR. MARTON FEKETE, DR. MARIANNA KURTI, DR. TIBOR LANG, DR. LAJOS TOLDY, DR. JANOS BORVENDFG, LASZLO NAGY, DR. SANDOR ELEK, DR. ISTVAN POLGARI AND DR. ISTVAN ELEKES.

Application No. 292/Cal/77 filed March 1, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims. No drawings.

Process for the preparation of racemic and optically active 1-tert.-butylamino-3-(2, 5-dichlorophenoxy)-2-propanol and its acid addition salts, characterized in that racemic or optically active 1, 2-epoxy-3-(2, 5-dichlorophenoxy)-propane is reacted in an apolar medium, preferably in dichloromethane, in the presence of tin (IV)-chloride, with an N-tert.-butylformimidic acid alkyl ester, then an alkanol containing hydrochloric acid, preferably ethanol, is added to the reaction mixture, and, if desired, the base is liberated from the obtained hydrochloride or the hydrochloride is converted into another acid addition salt or the racemic compound is separated to its enantiomers.

CLASS 172C. 144244.

Int. D01g 7/04.

**PROCESS FOR PRODUCING SAW-TOOTHEO WIRE CLOTH FOR A BEATER ROLL OF AN OPEN-END SPINNING MACHINE.**

*Applicant* : HOLLINGSWORTH GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF D-7261 OBERHAUGSTETT, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : KARL HEINZ SCHMOLKE AND ROBERT ERNST GOTTLIEB.

Application No. 36/Cal/75 filed January 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings.

A process for producing saw-toothed wire cloth adapted to be mounted firmly on the roll body of a beater roll for an open end spinning machine for processing synthetic fibres, which comprises cold rolling saw-toothed chemically resistant steel wire, heat treating the rolled wire at about 1100°C and quenching the heated wire in water to improve its granular structure and thereafter securing the wire to the body of the beater roll in any known manner.

CLASS 32F 144245.

Int. Cl.-C08F 29/02, 33/02, 45/00.

**A PROCESS FOR RENDERING POLYOLEFINIC COMPOSITIONS SELF-EXTINGUISHING.**

*Applicant* : MONTEDISON S.P.A., OF 31, FORO BUONAPARTE, MILAN, ITALY.

*Inventor* : GUIDO BERTELLI AND PIERPAOLO ROMA.

Application No. 2058/75 filed October 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims. No drawings.

A process for rendering polyolefinic compositions self-extinguishing, which comprises adding to and homogeneously mixing with a polymer or copolymer of ethylene and/or of alpha-olefins or to a styrene polymer a mixture of :

- (a) a bismuth compound chosen from amongst :  $Bi_2O_3$ ,  $Bi_2S_3$ , inorganic and organic oxygenated and non-oxygenated salts, and metallorganic compounds of the type  $BiR_x$ , wherein R is an alkyl with 1-20 carbon atoms or an aryl; and
- (b) a partially halogenated polymeric or non-polymeric compound, thermally unstable, which on heating decomposes with formation of the corresponding hydrogen halide; component (a) being present in such an amount as to have a bismuth content in the composition lower than 5% by weight, and more particularly lies between 0.5% and 3% by weight, while component (b) is present in an amount between 1% and 10% by weight of the composition.

CLASS 83A. 144246.

Int. Cl.-A23c 9/14.

**A METHOD FOR THE TREATMENT OF A DAIRY PRODUCT.**

*Applicant* : TETRA PAK INTERNATIONAL AB, OF FACK S-221 01 LUND 1, SWEDEN.

*Inventor* : HANS ANVERS RAUSING.

Application No. 1789/Cal/76 filed September 28, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawings.

A method for the treatment of dairy products such as milk, containing a disaccharide, with the intention of reducing the contents of the said disaccharide in the product, wherein an enzyme with the capacity of splitting the said disaccharide into monosaccharides is added before or in connection with the enclosure of the dairy product in a package, characterized in that the volume rate of the enzyme added to the dairy product is 0.2 — 5.0 per mille, and preferably 0.5 — 2.0 per mille.

CLASS 4A. 144247.

Int. Cl.-B64c 21/02.

**AIR INTAKE REGULATING SYSTEM FOR AIRCRAFT PROPULSION UNITS.**

*Applicant* : MESSERCHMITT-BOLKOW-BLOHM GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF 800 MUNCHEN, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : JURGEN PEIKERT.

Application No. 2880/Cal/74 filed December 31, 9174.

Convention date November 14, 1974/(49361/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

Means for regulating the air flow to the propulsion unit in an aircraft having an air intake with a fixed ramp and at least one movable ramp which is adjusted to match intake air flow to engine demand according to a predetermined control line defining a required relationship between B, the ratio of the air pressure above a movable ramp to the pressure of the external air flow, and X, the movable ramp position, for each value of Mach number (M) and aircraft angle of attack (α) comprising means for computing B and X reference signals from input signals representing M and α, the reference signals defining an end point on the required control line, a comparator wherein X is compared with a signal representing the actual ramp position, the output of the comparator being fed to a computing means producing an increment signal fed together with the B reference signal to a summing means, the output of the summing means, defining the required value of

B, forming one input signal to a second comparator the other input being fed with a signal representing the actual measured value of B, the output of the comparator forming a signal for effecting adjustment of the ramp.

CLASS 23E. 144248.  
Int. Cl.-A45c 7/00.

A BOX AND THE LIKE.

*Applicant* : MR. RAJKUMAR RAI, MR. ANUPAM KUMAR RAI, MR. KRISHNA KUMAR RAI AND MR. SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

*Inventor* : MR. RAJKUMAR RAI.

Application No. 965/Cal/75 filed May 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

A packaging box having a wall structure made of polywood in which the wall structure consists of four independent sheets of plywood adjacent walls of said structure being held together by flexible sheets to form corners, said flexible sheets being provided on the exterior surface of said walls characterized in that when said sidewall structure is collapsed in any direction there is a distinct spacing between the adjacent walls which are disposed in a spaced relationship to each other, said flexible sheets being held to said plywood sheets by means of staples.

CLASS 23E. 144249.  
Int. Cl.-A45c 7/00.

A BOX AND THE LIKE.

*Applicant* : MR. RAJKUMAR RAI, MR. ANUPAM KUMAR RAI, MR. KRISHNA KUMAR RAI AND MR. SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

*Inventor* : MR. RAJKUMAR RAI.

Application No. 966/Cal/75 filed May 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

A packaging box having a wall structure made consisting of four independent plywood sheets, adjacent sheets being held together by flexible sheets characterized in that said flexible sheets are provided at least on the interior surface of said sidewalls and to form corners and such that when said sidewall structure is collapsed in any direction there is a distinct spacing between the adjacent walls which are disposed in a spaced relationship to each other, said flexible sheets being held to said plywood sheets by staples.

CLASS 23B. 144250.  
Int. Cl.-B65d 9/10.

A BOX AND THE LIKE.

*Applicant* : MR. RAJKUMAR RAI, MR. ANUPAM KUMAR RAI, MR. KRISHNA KUMAR RAI AND MR. SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

*Inventor* : MR. RAJKUMAR RAI.

Application No. 967/Cal/75 filed May 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A box and the like having a wall structure consisting of four independent sheets of wood, such as plywood, the edges of the adjacent walls of said structure being held together in a mating relation to each other by a flexible plate or an angle member to form corners, said box further including two side members characterized in that said side members are held to said wall structure also by flexible plates in order to make the said box rigid and battens being provided on the exterior surface of said side members, said wall structure being rigid.

CLASS 179-A.

144251.

Int. Cl. B29c 13/02; B65d 41/00.

A LINER MATERIAL FOR A CAP.

*Applicant & Inventor* : JOSEPH DUKESS OF 517, FAYETTE AVENUE, MAMARONECK, NEW YORK 10543, UNITED STATES OF AMERICA.

Application No. 1263/Cal/75 filed June 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Liner material for a cap comprising a disc having one outer layer and an intermediate layer and bonded thereto, said outer layer being made of relatively thin and non-resilient material such as herein described, said intermediate layer being made of resilient material such as herein described and being compressible to form a lip extending beyond the periphery of said outer layer, said intermediate being relatively thick, and of 12 to 40 times the thickness of said outer layer.

CLASS 32F, & F, & F.

144252.

Int. Cl. C07f 9/50.

PROCESS FOR PREPARING NOVEL BIS PHOSPHINE COMPOUNDS.

*Applicant* : MONSANTO COMPANY, OF 300 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

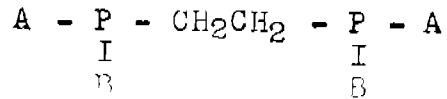
*Inventors* : WILLIAM STANDISH KNOWLES, 2) MILTON JEROME SABACKY, & BILLY DALE VINEYARD.

Application No. 2657/Cal/74 filed December 2, 1974.

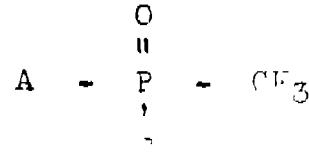
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

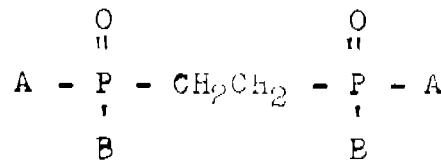
A process for preparing novel bis phosphine compounds having the general formula—



comprising the oxidative coupling (as defined hereinbefore) of an optically active phosphine oxide compound of the formula—



in the presence of a suitable solvent, whereby optically active compounds of the following formula are obtained—



which are reduced to give rise to compounds of formula 1, wherein A and B each independently represent substituted and unsubstituted alkyl of from 1 to 12 carbon atoms, substituted and unsubstituted cycloalkyl having from 4 to 7 carbon atoms, substituted and unsubstituted aryl; provided that such substituents provide no significant interference with the steric requirements around the phosphorus atom and A and B are different.

CLASS 107 H.

144253

Int. Cl. F02m 55/02.

## FUEL INJECTION PUMPING APPARATUS.

*Applicant*: C.A.V. LIMITED, OF WELL STREET, BIRMINGHAM B19 2XF, ENGLAND.*Inventors*: ROBERT THOMAS JOHN SKINNER & STANISLAW JAN ANTONI SOSNOWSKI.

Application No. 160/Cal/75 filed January 28, 1975.

Convention date February 1, 1974 (04681/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A liquid fuel injection pumping apparatus for supplying fuel to an internal combustion engine and comprising an injection pump for supplying fuel in timed relationship to an associated engine, a fluid pressure operable element for controlling the timing of delivery of fuel to the engine, a feed pump for supplying fuel to the injection pump during the filling strokes of the injection pump, throttle means for controlling the amount of fuel supplied by the feed pump to the injection pump, a first orifice disposed upstream of said throttle means, and through which fuel flows from the feed pump to the injection pump, a second orifice disposed in a passage branching off from intermediate said first orifice and said throttle means, valve means disposed downstream of said second orifice for controlling the pressure of fuel downstream of the second orifice so that it varies in accordance with the square of the speed of which the injection pump is driven, the pressure intermediate said first and second orifices being applied to said element a relief valve for controlling the output pressure of the feed pump so that it varies substantially in accordance with the law  $(N^2+K)$  where  $N$  and  $K$  is a constant, and further valve means including a variable orifice connected in parallel with said first orifice, said further valve means being responsive to the output pressure of the feed pump and arranged so that as the output pressure of the feed pump increases, the effected effective size of the variable orifice decreases.

CLASS 40B.

144254.

Int. Cl. B01j 11/78, 11/84.

## PROCESS FOR THE HIGH YIELD PREPARATION OF ETHYLENE-1, 3-BUTADIENE COPOLYMERS.

*Applicant*: ANIC S.P.A., AT PALERMO, VIA M. STABILE, 216, ITALY.*Inventor*: ANTONIO CARBONARO.

Application No. 1347/Cal/75 filed July 10, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims. No drawings.

Process for the high yield preparation of ethylene-butadiene copolymers consisting in performing the polymerization reaction in one or more hydro-carbon solvents in the presence of a catalytic system constituted by:

(a) one or more vanadium compounds soluble in the above-said solvents selected among the tetra- and pentavalent and complexed trivalent vanadium halides, vanadium alcoholates, vanadium and vanadyl chelates;

(b) one or more aluminium compounds having the formula  $R_1R_2AlX$  in which  $R_1$  and  $R_2$ , the same or different, are alkyl, cycloalkyl, alkylaryl and aryl radicals containing 1 to 18 carbon atoms or hydrogen and  $X$  is halogen, preferably selected between chlorine or bromine;

(c) one or more polyhalogenated compounds soluble or solubilizable in the reaction medium deriving from the element of III or IV group of the periodic system, and/or one or more compounds able to free protons;

(d) one or more organic compounds containing in the molecule at least a  $CX_2$  group,  $X$  being halogen.

CLASS 32-B.

144255.

Int. Cl. C07C 1/20; 3/50.

## PROCESS FOR PRODUCING ISOPRENE.

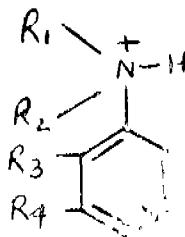
*Applicants & Inventors*: VLADIMIR ALEXANDROVICH BELYAEV, (2) VLADIMIR LEONTIEVICH RUDKOVSKY OF YAROSLAVL, PROSPEKT OKTYABRYA, 41, VK. 20, USSR. & OI VOLSHSKY VOLGOGRADSKOI OBLASTI, ULITSA KARBYSIIIEVA, 17 KV. 21, USSR.

Application No. 118/Cal/76 filed January 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A process for producing isoprene comprising reacting formaldehyde with isobutylene and/or trimethylcarbinol in a liquid phase at a temperature range of about  $70^{\circ}$  to  $200^{\circ}\text{C}$  in the presence of a catalyst selected from compounds having the formula 1.



wherein  $R_1$  and  $R$  are hydrogen, an alkyl, aryl, alkylaryl, aralkyl; the hydrogen atoms in the benzene ring may be substituted by an alkyl or halide;  $R_1$  and  $R_4$  are hydrogen, a halide, sulpho group, or both form a benzene ring, followed by isolation of the desired product by conventional method.

CLASS 34D.

144256.

Int. Cl. C08B 5/02, 21/12.

## METHOD FOR MANUFACTURING OF BLASTING SOLUBLE NITROCELLULOSE.

*Applicant*: DIRECTOR GENERAL, ORDANCE FACTORIES, GOVERNMENT OF INDIA, MINISTRY OF DEFENCE, 44, PARK STREET, CALCUTTA-16, WEST BENGAL, INDIA.*Inventors*: S/S OM PRAKASH GUPTA, KAILASH VAIDYANATHAN, NARAHARI RANGANATH APT, RAM SWARUP SITARMA.

Application No. 876/Cal/76 filed May 20, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

A process for the manufacture of blasting soluble nitrocellulose from raw cotton linters other than cotton cops and cotton waste of high viscosity comprising the steps of alkali treatment to obtain high purity of raw material, drying, nitration with a suitable mixed acid composition such as herein described, followed by stabilisation of the product in acidified and neutral media, pulping in an alkaline medium before blending with chalk.

CLASS 70B &amp; C.

144257.

Int. Cl. B01k 3/10.

## PROCESS FOR THF ELECTROLYTIC DECOMPOSITION OF AQUEOUS SOLUTIONS OF IONIZABLE CHEMICAL COMPOUNDS.

*Applicant*: HOOKER CHEMICALS & PLASTICS CORP., NIAGARA FALLS, NEW YORK, U.S.A.*Inventor*: RALPH FALVO.

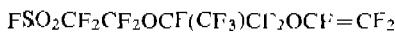
Application No. 1670/Cal/76 filed September 10, 1976.

Division of Application No. 225/Cal/74 filed February 1, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

## 20 Claims.

A process for the electrolytic decomposition of aqueous solutions of ionizable chemical compounds which comprises electrolyzing an aqueous solution of an ionizable chemical compound in an electrolytic cell having an anode compartment and a cathode compartment separated by a barrier consisting essentially of at least two layers of a permselective membrane material which is impervious to liquids and gases and is a hydrolysed copolymer of tetrafluoroethylene and a sulfonated perfluorovinyl ether of the formula



said copolymer having an equivalent weight of from about 900 to 1600.

CLASS 70B & C.  
144258.  
Int. Cl.-B01k 3/10.

## PROCESS FOR THE PRODUCTION OF CHLORINE AND CAUSTIC SODA FROM SOLUTIONS CONTAINING SODIUM CHLORIDE.

*Applicant* : HOOKER CHEMICALS & PLASTICS CORP., NIAGARA FALLS, NEW YORK, UNITED STATES OF AMERICA.

*Inventor* : RALPH FALVO.

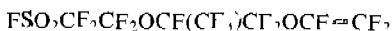
Application No. 1671/Cal/76 filed September 10, 1976.

Division of Application No. 225/Cal/74 filed February 1, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

A process for the production of chlorine and caustic soda from solutions containing sodium chloride which comprises electrolyzing aqueous brine solutions in a cell equipped with an anode and a cathode separated by a perm-selective barrier consisting essentially of at least two layers of hydrolyzed copolymer of tetrafluoroethylene and a sulfonated perfluorovinyl ether of the formula



said copolymer having an equivalent weight of from about 900 to 1600 which is obtained by treating a copolymer containing sulfonyl fluoride groups with a member of the group selected from boiling water and hot dilute aqueous caustic alkali.

CLASS 4A.  
144259.  
Int. Cl.-B64c 27/32.

## A ROTOR MFANS FOR AN AIRCRAFT.

*Applicant & Inventor* : ALBERTO KLING, OF AM MULG 14, 8136 PERCHA, WEST GERMANY.

Application No. 2614/Cal/74 filed November 23, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 40 Claims.

A rotor means for an aircraft comprising two coaxially counterrotating rotors which are driven by means of a drive means characterized in that each of the rotors is journaled freely rotatable about an imaginary axis of rotation common to both rotors on or through either a fuselage part or a support member, each fuselage part or support member being either rigidly connected to or journaled on the fuselage, that each rotor together with the other respective rotor or with the component part of the support member or fuselage part supporting the first mentioned rotor constitutes an integral part of an electromotor by forming the counteracting parts of the electromotor ("rotor" and "stator") which rotate relative to one another by securing a plurality of poles of the electromotor to the respective rotor and by arranging on the other counter-rotating rotor or on the component part of the support member or fuselage part supporting the first mentioned rotor the corresponding poles of the electromotor facing toward the poles of the respective rotor such that a reciprocal field effect exists, that at least the poles provided on one rotor or on the respective component

part of the support member or fuselage part are electrically connected to a current generator which produces a frequency current.

CLASS 151D & 166A.

144260.

Int. Cl.-B63g 8/04.

## SUBMARINE PIPING SECTION AND PROCESS FOR PRODUCING THEREOF.

*Applicant & Inventor* : JOSEPH BURRUS WEST, OF P.O. BOX 8759, BEIRUT, LEBANON.

Application No. 1553/Cal/75 filed August 8, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 32 Claims.

A piping section for use in the construction of a submarine piping string, comprising an inner metal pipe having disposed around its outer surface over substantially its entire length, a concrete jacket formed from one or more preformed reinforced constructional grade concrete hollow cylindrical sections, with a set grout composition disposed between the jacket and the pipe.

CLASS 32E & 40F & 145A.

144261.

Int. Cl.-C08L 25/00, C08b 7/00.

## A METHOD FOR MAKING CELLULOSE GRAFT COPOLYMER.

*Applicant* : PERSONAL PRODUCTS COMPANY, AT MILLTOWN, NEW JERSEY, UNITED STATES OF AMERICA.

*Inventors* : PRONOY CHATTERJEE AND ROBERT SCHWENKER JR.

Application No. 67/Cal/75 filed April 2, 1975.

Convention date June 5, 1974 (24948/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims. No drawings.

A method for making a cellulose graft copolymer in fibrous form which comprises :

co-polymerising in situ onto the polymeric backbone of cellulose fibers selected from the class consisting of natural and regenerated cellulose fibers, a monomer which is hydrolyzable after grafting to provide ionic polymer moieties as herein described and a different monomer which is at least partially non-hydrolyzable after grafting to provide non-ionic polymer moieties as herein described to form a fibrous cellulose graft copolymer having a cellulose backbone with said copolymer side chains grafted thereto having the said hydrolyzable polymer moieties and non-ionic, non-hydrolyzable polymer moieties; followed by hydrolyzing the hydrolyzable polymer moieties on said cellulose graft copolymer to convert the same into ionic polymer moieties, thereby providing a cellulose graft copolymer having a cellulose backbone with copolymer side chains grafted thereto, which copolymer side chains are made up of ionic polymer moieties and non-ionic polymer moieties.

CLASS 13C & 20B.

144262.

Int. Cl.-B65b 11/50, B65d 13/04, 15/00, 37/00.

## A SACHET HOLDING A STAMP, TOKEN AND LIKE DEVICE.

*Applicant* : GREEN SHIELD TRADING STAMP COMPANY LIMITED, OF GREEN SHIELD HOUSE, STATION ROAD, FEDGWARE, MIDDLSEX, ENGLAND.

*Inventor* : WILLIAM WOOD.

Application No. 1048/Cal/75 filed May 23, 1975.

Convention date June 5, 1974 (24948/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A sachet comprising a backing sheet of paper and a facing sheet secured together, characterized in that the backing and facing sheets form between them a completely enclosed pocket holding a stamp, token or like device, and that the backing sheet has, completely covering its back surface, a coating of heat curable adhesive, which can be activated by heating for securing the sachet and contents to an article of merchandise.

CLASS 12-Ca. 144263.  
Int. Cl. C21d 1/26; 9/22.

## A PROCESS FOR IMPROVING THE TOOL LIFE OF HIGH-SPEED STEEL TOOLS.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors*: DR. SUKUMAR JANA, (2) AMITAVA BASU, (3) BINOYENDRA KUMAR GHOSH, & PROF. DR. SUBODH CHANDRA DASGUPTA.

Application No. 1269/Cal/75 filed June 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A process for improving the tool life of high speed steel tools by hardening and tempering in the conventional manner characterized in that conventionally hot-worked and mill-annealed high-speed steel tool bits are first prior austenitized at upto 900°C for one hour, then annealed at upto 798°C for eight hours and air cooled.

CLASS 32D & E. 144264.  
Int. Cl. C07f 5/06; C08g 20/32.

## IMPROVEMENTS IN OR RELATING TO THE PRODUCTION OF POLYIMINOALANES.

*Applicant*: SNAMPROGETTI S.P.A. OF CORSO VENEZIA 16, MILAN, ITALY.

*Inventors*: SALVATORE CUCINELLA, (2) ALFSSANDRO MAZZEI, & GIOVANNI DOZZI.

Application No. 1051/Cal/75 filed July 30, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims, No drawings.

A process for the preparation of a polyiminoalane having the composition (HAINR)<sub>n</sub>, in which n has a value of from 3 to 50 and R is an aliphatic aromatic or cycloaliphatic hydrocarbon radical, which comprises reacting directly metallic aluminium with a primary amine in the presence of hydrogen.

CLASS 40-F. 144265.  
Int. Cl. G01n 29/00; 31/20.

## APPARATUS FOR MICROPARTICLE ANALYSIS.

*Applicant*: LAHFS CLINIC FOUNDATION, AT 605, COMMONWEALTH AVENUE, BOSTON, MASSACHUSETTS 02215 U.S.A.

*Inventor*: WILLIAM ADOLPH CURBY.

Application No. 2112/Cal/75 filed November 4, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims.

Apparatus for analyzing micron- and submicron-sized bodies such as particles, cell, and organisms, to determine various characteristics such as sizes, shapes and number, and for studying the dynamics of cellular growth and changes

and rates of changes in sizes, shapes, and number of cells in living populations of organisms which comprises:

particle-detecting means capable of producing a primary voltage pulse as a function of dimensional characteristics of each body detected when a given sample of said bodies in fluid suspension is passed through said particle-detecting means; means for feeding each primary voltage pulse to secondary pulse producing means;

actuating trigger means in said secondary pulse producing means during the duration of each primary voltage pulse to produce secondary voltage pulses whose amplitude reflects the relative amplitude at the time of said triggering of said primary voltage pulse associated therewith; and means for indicating the amplitude of said secondary pulses whereby indications of said amplitudes of said secondary pulses can be used to reflect the shape of said associated primary voltage pulses at the times of said triggerings such that the bodies being analyzed can be characterized.

CLASS 100; 127-I; 163A. 144266.  
Int. Cl. F15b 15/02; 15/08.

## MULTIPLE AIR MOTOR DRIVE UNIT.

*Applicant & Inventor*: RAYMOND EDWARD STARBOARD OF 929 DRIVE STREET, WEST SACRAMENTO, CALIFORNIA 95691 UNITED STATES OF AMERICA.

Application No. 326/Cal/76 filed February 24, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

An air motor power unit comprising a base, a plurality of air motors secured to the base, each of said air motors having an air inlet fitting and an air exhaust fitting, a shaft in each of said air motors driven thereby, gear means connecting said air motor shafts to a common drive shaft, conduit means connecting the exhaust fitting of one of said air motors to the inlet fitting of the next succeeding air motor interconnecting all of said air motors, and means interconnecting the inlet fittings of each of said air motors to balance the air pressure on the inlet said of each of said air motors.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy:—

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142552 142567 142571 142590 142592 142619 142627 142670  
142684 142685 142717 142738

## AMENDMENT PROCEEDINGS UNDER SEC. 57

Notice is hereby given that the Western India Plywoods Limited, Balipatram, Cannanore-670010, Kerala State an Indian Company have made an application under Section 57 of the Patents Act, 1970 for amendment of the complete specification of their application for Patent No. 142209 for "A process of preparing an improved resin". The amendment is by way of correction in order to make the description and claim 3 consistent with each other. The application for amendment and the proposed amendments can be inspected free of

charge at the Patent Office Branch, 776, Triplicane High Road, Madras-600 005 on any working day during the usual office hours or copy of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office Branch, Madras. If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filing the said notice.

List No. 3

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of General & Mechanical Engineering Industry are not being commercially worked in India as admitted by the Patentee in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calender year 1976 generally on account of want of requests for licences to work the patented inventions, persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of Patentee	Brief title of invention
1	2	3	4	5
1.	131033	19-4-1971	Sergei Zino Vierich, Vasiliev, Gogolevsky bulvar, SKV 50, Moscow, U.S.S.R.	Absorber
2.	131037	19-4-1971	Sandvik Aktiebolag, Fack S-81101, Sandviken 1, Sweden.	Tool holder for rock mill'g cutter.
3.	131058	21-4-1971	USS Engineers & Consultant Inc., 525 William Penn Place, Pittsburgh, Pennsylvania, U. S. A.	Improved slideable gate construction for use as a closure on a bottom pour vessel.
4.	131059	21-4-1971	Girling Ltd. Kings Rd., Tyseley, Birmingham 11, England.	Brake adjuster mechanism for drum brakes.
5.	131061	21-4-1971	Gosudarstvenny etc., Kharkov, Ulitsa, Sumskaya 60, U. S. S. R.	Horizontal coke oven.
6.	131081	22-4-1971	Ruti Machinery Works Ltd., CII-8630 Ruti, Zurich, Switzerland.	Arrangements for holding west threads.
7.	131083	22-4-1971	Alexei Andreevich Zulpov, of Ulitsa, Sanislavskogo, 15 K.V., 25, Moscow, U. S. S. R.	Device for balancing an airplane during its take off and landing.
8.	131101	24-4-1971	Mefina S. A., 5, route de Beaumont, Fribourg, Switzerland.	Fuze for non-gyrotary projectile.
9.	131103	24-4-1971	Imasco Ltd., 4 Westmount Square, Montreal 216, Quebec, Canada.	Pneumatic separator with recirculation of air.
10.	131120	26-4-1971	John Harold Barwell, 13 Cranmer Rd., Cambridge, Cambridgeshire, England.	A method of and an apparatus for applying tread material to a tyre or wheel and a tyre or wheel so obtained.
11.	131127	26-4-1971	Tsentralny Nauchno of Prospect Kalinina 5, Moscow, U. S. S. R.	Air conditioning installation.
12.	131140	27-4-1971	Joseph Lucas (Industries) Ltd., Great Kings St., Birmingham, England.	Suppressors for road vehicles.
13.	131165	28-4-1971	Libbey-Owens Ford Co., 811 Madison Avenue, Toledo Otis, U.S.A.	Apparatus for edge treating glass sheets.
14.	131201	1-5-1971	Reinar Schmidt & Erik Schmidt, Skyttegatan 5-7, 77101 Ludvika, Sweden.	A thread cutting device for slide lathes.
15.	131206	3-5-1971	Marcona Corp., One Maritime Plaza, San Francisco, California, U.S.A.	Apparatus for loading slurries in vessels and eliminating the suspending liquids.
16.	131222	4-5-1971	Willian Prym-Werke KG., 519 Stolbeg/Rhld, Zweifaller Str., 5-7, Federal Republic of Germany.	Manufacture of slide fastener by wearing.
17.	131239	5-5-1971	Stencil Aero Engg. Corp., Municipal Airport Rd., Arden, North Carolina, U.S.A.	Deploying and spreading of parachute.
18.	131242	5-5-1971	Aktieselskabet Niro Atomiser, 305 Gladsaxevej, 2860 Soeborg, Denmark.	A liquid distributor for feeding liquid to rotating atomizer wheel.
19.	131293	11-5-1971	Clayton Dewandre Co., Ltd., Titanic Works, Lincoln, England.	Spring brake units.
20.	131294	11-5-1971	Do.	Control valves for spring brake units.
21.	131295	11-5-1971	Do.	Hydraulic pumps.

1	2	3	4	5
22.	131329	12-5-1971	Charis Aka Charilaos Massouras, 93, Illissou, Atenches, Greece.	Gynaecological device for insertion in the Women's womb.
23.	131348	15-7-1971	Joseph Lucas (Industries) Ltd., Great Kings St., Birmingham, England.	Method of interconnecting parts.
24.	131353	13-5-1971	Shiron Ichinose, 11-8, 4-chome, Shinohara, Jitamacho, Nada-ku, Kobe-shi, Hyogo-ken, Japan.	A screen printing machine.
25.	131357	13-5-1971	VDO Tachometer, 6 Frankfurt am main 90, Postfach 901020, Federal Republic of Germany.	Tachometer with a distance counting device.
26.	131384	17-5-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Servo boosters for vehicle brake system.
27.	131389	17-3-1972	Katragadda Ramakrishna Chaudary, "Preet", 215/2, Amrpeth, Hyderabad-500016.	An improved tap changer.
28.	131398	18-5-1971	Sandvik Aktiebolag, Fack S-81101 Sandviken, Sweden.	Boring bar insert.
29.	131416	19-5-1971	Bayer Aktiengesellschaft, Leverkusen, Federal Republic of Germany.	Apparatus for drying rubber masses.
30.	131437	4-10-1971	G. M. Kamra, Suit No. B-25, 8735-165 St., Edmonton, Canada.	Cooking appliances.
31.	131487	25-5-1971	Mefina S. A., 5 route de Beaumont, Fribourg, Switzerland.	Presser foot for sewing machine.
32.	131488	25-5-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Disc brakes for vehicles.
33.	131491	25-5-1971	Inoplast Handdes G. m. b. H., 6 Frankfurt am Main, Eschersheim, Landstrasse 516, Federal Republic of Germany.	A sports striking instrument e.g. Hockey stick or golf clubs.
34.	131497	26-5-1971	Borgs Fabriks Aktiebolag, Norrkoping, Sweden.	Device for restoring the retractable barrier after arresting an aircraft.
35.	131503	26-5-1971	Siemens AG., Berlin & Munich, West Germany.	A die suitable for use in the application of a covering layer to a wire.
36.	131511	27-5-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Servo boosters for use in vehicle brake system.
37.	131514	27-5-1971	Leningradsky Metallichesky Zavod, Imeni XXII Sotsial KPSS, Leningrad, Sverdlovskaya naberezhnaya 18, U.S.S.R.	Connection of replaceable section cone of a hydraulic turbine draft tube with suction bend of said draft tube.
38.	131532	29-5-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James's, London S.W.1., England.	Pneumatic tyres.
39.	131533	29-5-1971	Simms Motor Units Ltd., East Fineway, London, England.	Liquid fuel injection pumping apparatus.
40.	131546	31-5-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James's, London S.W. 1., England.	Tyre mould.
41.	131563	2-6-1971	Glaverbel-Mecaniver, 166, Chausee de la Hulpe, Watermeal-Boitsfort, Belgium.	Bending sheet blanks.
42.	131564	2-6-1971	USS Engineers & Consultants Inc., 600 Grant St., Pittsburgh, Pennsylvania, U.S.A.	Method of making rim stabilized steel ingots.
43.	131565	2-6-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Disc brakes.
44.	131602	4-6-1971	Emhart Corp., 426 Colt Highway, Farmington, Connecticut 06032, U.S.A.	A system for inspecting a liquid filled transparent container.
45.	131619	7-6-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Disc brakes.
46.	131666	10-6-1971	Keelavites Hydraulics Ltd., Allesley, Coventry, Warwickshire, England.	Fluid tight annular seals.
47.	131691	14-6-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James's, London S.W. 1., England.	Tyre and wheel assemblies.
48.	131692	14-6-1971	Do.	Pneumatic tyres.
49.	131693	14-6-1971	Do.	Do.
50.	131737	16-6-1971	Do.	Tyre and wheel assemblies.
51.	131738	16-6-1971	Do.	Do.
52.	131739	16-6-1971	Do.	Pneumatic tyres.
53.	131740	16-6-1971	Do.	Tyre and wheel assemblies.

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54.	131741	16-6-1971	Dunlop Holdings Ltd., Dunlop House, Tyder St., St. James's, London S. W. 1, England.	Tyre and wheel assemblies.
55.	131743	15-4-1972	Sperry Rand Corp., Sperry Rand Bldg., 1290 Avenue of Americas, New York 19, N. Y., U.S.A.	Improving filing unit or cabinet.
56.	131747	16-6-1971	Snampoggetti S. p. A., 16 Corso Venezia, Milan, Italy.	Production of composite yarns apparatus suitable for realising the same and yarns obtained thereby.
57.	131761	17-6-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James's, London S.W. 1, England.	Printers blankets.
58.	131769	17-6-1971	Kharkovsky etc., Kharkov 84, U.S.S.R.	Vertical machine for working metals by impulses.
59.	131778	18-6-1971	Union Carbide Corp., 270 Park Avenue, New York, N.Y. 10017, U.S.A.	Arc torch cutting process.
60.	131780	18-6-1971	USS Engineers & Consultants Inc., 525 William Penn Place, Pittsburgh, Pennsylvania, U.S.A.	Tundish and method of preheating same.
61.	131785	18-6-1971	Tsentralnoe Konstruktorsko-Tekhnologicheskoe Bjuro Kolesnogo Proizvodstva chelyabinsk 12, U.S.S.R.	Wheel rim for pneumatic tyre.
62.	131789	18-6-1971	Chief Scientist R & D Organisation, Ministry of Defence, Govt. of India, New Delhi.	A mask for prevention of floating particles from being inhaled.
63.	131800	19-6-1971	Bayer Aktiengesellschaft, Leverkusen, Federal Republic of Germany.	Process for the continuous production of extruded sections.
64.	131828	22-6-1971	Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England.	Lock actuators for vehicle wheel brakes.
65.	131835	22-6-1971	Dr. O. A. Becker, Scarbruecken, West Germany.	A composit structural unit for thermal and acoustic insulation.
66.	131859	23-6-1971	Nippon Kohan etc., 1-3, 1-chome, Otemachi, Chiyoda-ku, Tokyo, Japan.	Apparatus for operating a blast furnace with an auxilary reducing gas.
67.	131885	26-6-1971	Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England.	Lining wear indicator.
68.	131886	26-6-1971	Euromcam Establishment Londstrasse 825, F4-9494 Schaan in the State of Liechtenstein.	Device for playing and learning game.
69.	131889	28-6-1971	Societe De Conditionnement En Aluminium Seal GP., 47 rue de Monceau, Paris 8e, France.	Machine for tapering flexible metal tube.
70.	131891	28-6-1971	Clayton Dewandre Co., Ltd., Titanic Works, Lincoln, England.	Air pressure operated braking systems.
71.	131904	29-6-1971	Joseph Lucas (Industries) Ltd., Great Kings St., Birmingham, England.	Anchorage devices.
72.	131906	29-6-1971	Kentredder Ltd., Longueville, St. Saviour, Jersey Channel Islands, England.	Machine for buffing tyre treads and the like.
73.	131946	12-4-1972	S. V. Padmanabhan & Thatra B. L. & P. B. Aule, c/o Research & Designs & Standards Organisation, Ministry of Railway, Alambagh, Lucknow-5, U.P., India.	An induction vehicle and vehicle detection system.
74.	131964	2-7-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James, London S.W.1, England.	Pneumatic tyres.
75.	131969	2-7-1971	Vsesojuzny Nauchno Issledovatel'sky Institut Zemboinogo Mashinotroenia, Leningrad 1, Kra Snoonetskaya 11, U.S.S.R.	Centrifugal suspension pump.
76.	132003	6-7-1971	Tony Ralph Sarich, 491 Walter Rd., Bayswater, Western Australia, Commonwealth of Australia.	An improved rotary motor
77.	132027	8-7-1971	Carrier Corp., Syracuse, New York, U.S.A.	Motor compressor unit.
78.	132028	8-7-1971	Do.	A cylindrical block for a motor compressor unit having discharge muffling means.
79.	132029	8-7-1971	Carrier Corp., Syracuse, New York, U.S.A.	Hermetic motor compressor unit.
80.	132033	8-7-1971	Raymond Campus, 27 Avenue, Foch 75, Paris 16, France.	Construction element made of reinforced plastics.
81.	132045	9-7-1971	Universal Oil Products Co., No. 30 Alongquin Rd., Des Plaines, Illinois, U.S.A.	Flow distributing apparatus.
82.	132111	14-7-1971	Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England.	Lock actuators for vehicle wheel brakes.
83.	132117	14-7-1971	Ryutarao Yoritomi, S-17-12, Kaishikawa, Bunkyo-ku, Tokyo, Japan.	Continuous squeezing press of the 'V' type.
84.	132118	14-7-1971	Keene Corp., 345 Park Avenue, New York, U.S.A.	An apparatus for detecting and measuring the concentration of suspended solids in a liquid.
85.	132119	14-7-1971	Reifenhauser KG Co., 521 Troisdorf, Frankfurter Str., 46-48, Federal Republic of Germany.	Worm extrusion press for plastics.

1.	2.	3.	4.	5.
86.	132141	16-7-1971	Philip Morris Inc., 100 Park Avenue, New York, N.Y. 10017, U.S.A.	Double edge safety razor embodying flexible blade pressure control.
87.	132157	19-7-1971	Clayton Dewandre Co. Ltd., Titanic Works, Lincoln, England.	Vehicle braking systems.
88.	132166	15-4-1972	Surendanath Nambiar, 25/1649, Trippunithura Rd., Vytila, Cochin 19, India.	Alternate impellar rotary engine.
89.	132186	21-7-1971	Libbey Owens Ford Co., 811 Madison Avenue, Toledo, Ohio, U.S.A.	Soldering.
90.	132184	21-7-1971	Monsanto Co., 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Hollow filaments and reverse osmosis membranes prepared therefrom.
91.	132198	22-7-1971	Sherritt Gordon Mines Ltd., 25 Kings St. West., Toronto, Canada.	Apparatus for continuously determining the temperature of ore in a multiple hearth furnace.
92.	132214	23-7-1971	Sherritt Gordon Mines Ltd., 25 Kings St. West., Toronto, Canada.	Sampling device for multiple hearth furnace.
93.	132216	23-7-1971	Sealed Power Corp., 2001 Sanford St., Muskegon, Michigan 49443, U.S.A.	Spacit expander.
94.	132218	23-7-1971	Abildgaard Laboratories Ltd., 857 Monte Avenue, Mountain View, California 94040, U.S.A.	An uncased book and method of forming such book.
95.	132219	23-7-1971	(1) Vladimir Valerianovich of Kiev, Ulitsa Dymeskaya 37 KV1, U.S.S.R. (2) Alexander I. S. of Kiev Brest Litovsky, Prospect, 112 KV, 39, U.S.S.R. (3) Igor A. Y. of Kiev delegatsky, Permaulak 10 K. V. 1, U.S.S.R. (4) Viktoria M. K. of Kiev Brest, Litovsky Prospekt, 27 KV, U.S.S.R.	Mechanism for transportation of an information carrier.
96.	132235	24-7-1971	USS Engineers & Consultants Inc., 800 Grant St., Pittsburgh, Pennsylvania, U.S.A.	Soaking pit.
97.	132252	26-7-1971	Sandvik Aktiebolag, Fack 811-01, Sandviken 1, Sweden.	Percussion drill rods.
98.	132261	5-8-1972	Yashio Kato of No. 31, Nishinagashuhondori, Amagasaki City, Hyogo, Japan.	Apparatus for medical treatment.
99.	132269	27-7-1971	F. L. Smidt & Co. A/s, 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Rotary kiln with cooler tubes.
100.	132283	28-7-1971	Burroughs Corp., Second Avenue of Burroughs Detroit, Michigan 48232, U.S.A.	A display device.
101.	132306	30-7-1971	Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England.	Disc brakes.
102.	132309	20-4-1972	Hindustan Lever Ltd., Hindustan Lever House, 165-166 Backbay Reclamation, Bombay--400020.	Preparing an instant tea powder.
103.	132331	2-8-1971	(1) Vladimir Valerianovich of Kiev Ulitsa, Dymeskaya, 37 KV1, U.S.S.R. (2) Alexander I. S. of Kiev Brest, Litovskaya, Prospekt 112 KV 39, U.S.S.R. (3) Igor A. Y. of Kiev delegatsky, Permaulak 10 KV1, U.S.S.R. (4) Viktoria M. K. of Kiev Brest, Litovskaya Prospekt, 27 KV, U.S.S.R.	Mechanism for transportation of information carrier.
104.	132340	2-8-1971	Dowty Hydraulic Units Ltd., Arle Court, Cheltenham, Gloucester, England.	Gearing and lubricating means.
105.	132349	3-8-1971	British Leyland Truck & Bus Division, Ltd., Lancashire, England.	Bogie suspension for vehicles.
106.	132383	5-8-1971	Girling Ltd., Kings Rd., Tyseley, Birmingham 11, England.	Fluid pressure operated braking device for vehicles incorporating internal shoe drum brakes.
107.	132392	5-8-1971	Siemens AG., Berlin & Munich, West Germany.	Strip-line-Y-circulators.
108.	132405	6-8-1971	D. G. Boyle, 5972 Brounmiller Road, Lockport, New York 14094, U.S.A.	Flexible tubing particularly for irrigation systems.
109.	132410	6-8-1971	Parks Cramer Co. Box, 444, Fitchburg, Massachusetts, U.S.A.	Textile yarn forming machine data communicating and apparatus.
110.	132411	6-8-1971	Do.	Yarns piecing apparatus.
111.	132427	9-8-1971	Brico Engg. Ltd., Holbrook Lane, Conventry, Warwickshire, England.	Fuel injection system.
112.	132437	9-8-1971	Ashworth Bros Inc., P. O. Box 670, Fall River, Massachusetts 02722, U.S.A.	Card clothing.
113.	132460	11-8-1971	C. A. V. Ltd., Well St., Birmingham 19, England.	Delivery valves for use in liquid fuel pumping apparatus.
114.	132494	13-8-1971	Raymond Camus, 27, Avenue, Foch, 75 Paris 16, France.	A plant for manufacturing reinforced concrete construction panels.

1.	2.	3.	4.	5.
115.	132505	16-8-1971	Brico Engg. Ltd., Holbrook, Lane Conventry, Warwickshire, England.	Fuel injectors.
116.	132518	16-8-1971	Dresser Investments N. V., Willemstad, Cura-cao, Netherlands Antilles.	Apparatus for mixing and modulating liquid fuel and intake air for an I. C. engine.
117.	132525	16-8-1971	Sandvik Aktiebolag, Iack-S-81101, Sandviken 1, Sweden.	Insert for cutting of steel cast iron or similar material.
118.	132556	18-8-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Vehicle brakes.
119.	132567	18-8-1971	L. G. Hudson, Little Capped Hall, Epping, Essex, England.	Apparatus for perforating tubes.
120.	132573	19-8-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Load transmitting struts.
121.	132577	19-8-1971	Borgs Fabriks Aktiebolag, Norrkoping, Sweden.	Aircraft arresting device.
122.	132588	20-8-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Vehicle brakes.
123.	132591	20-8-1971	Societe Technique Pour L'Utilization De La Precontraint, 66 route de la Reine, Boulogne, Billancourt, Hauts de Seine, France.	Expansion joint between two portions of ground covering and process for producing the same.
124.	132627	23-8-1971	Etablissement Salgad, Vadaz, Liechtenstein.	Explosive device.
125.	132640	24-8-1971	Sheritt Gordon Mines Ltd., 25 Kings St. West, Toronto, 1, Ontario, Canada.	Rotary joints.
126.	132659	25-8-1971	USS Engineers & Consultants Inc., 525 William Penn Place, Pittsburgh, Pennsylvania U. S.A.	Method for effecting rapid heat treatment of steel plate.
127.	132661	25-8-1971	Kungursky Mashinostroitelny Zavod, Kungur, Parmskai, Oblasti, Utsa, Prosveschenya 11, U.S.S.R.	Turbodrill.
128.	132690	26-8-1971	F. L. Smidt & Co. A/S, 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Process for burning materials in rotary kilns.
129.	132734	1-9-1971	Brico Engg. Ltd., Holbrook Lane, Conventry, Warwickshire, England.	Fuel injection systems.
130.	132737	1-9-1971	Girling Ltd., Kings Rd., Tysley, Birmingham 11, England.	Automatic adjusters.
131.	132767	3-9-1971	Vandervell Products Ltd., Nordon Rd., Maidenhead, Berkshire, England.	Flanged half bearings.
132.	132817	5-6-1972	A. A. Shah, c/o Patel & Shah Bldgs., Opp : Nagar Eye Hospital, Ellisbridge, Ahmedabad-6, India.	Manufacture of hinges.
133.	132832	8-9-1971	USS Engineers & Consultants Inc., 600 Grant St., Pittsburgh, Pennsylvania, U.S.A.	An assembly for attachment to a bottom pour vessel for controlling flow of liquid through nozzle.
134.	132834	8-9-1971	Wieland Werke AG., 7900 Vim, German Federal Republic.	A device in pipe rolling machine for insertion of pipes.
135.	132835	8-9-1971	Do.	Rolling ruled tubes.
136.	132836	8-9-1971	Do.	A device for forming screw shaped ribs on tubular work pipes.
137.	132838	8-9-1971	Instranetics Inc., 115 East Elm Avenue, Fullerton, California, U.S.A.	Receiver for disposable surgical implements.
138.	132866	10-9-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James's, London S. W. 1, England.	Pneumatic tyres.
139.	132888	13-9-1971	Schubert & Salzer Maschine Akt., Romerstrasse 11/12, 8070 Ingolstadt, Germany.	A feeding device for fibre silver spinning apparatus.
140.	132918	15-9-1971	N. S. Sathaye Nalanda, D-15, Anushakti Nagar, Deonar, Bombay 400094, India.	A device for locking the supply of fuel to the burner of a gas stove.
141.	132928	16-9-1971	Sheritt Gordon Mines Ltd., 25 Kings St., West, Toronto, Canada.	Pump control system.
142.	132923	16-9-1971	Veb-Polygraph, 59, Zweioundorfer, strasse, Leipzig, German Democratic Republic.	Sheet feeding apparatus for printing machine.
143.	132946	17-9-1971	Etat Francais, 12, Quai Henri IV, Paris 4 eme, France.	Propergoll or propellant blocks.
144.	132948	17-9-1971	Thyssen Neiderhe G. m. b. H., 42 Oberhausen, Essner Strasse 66, Federal Republic of Germany.	Shaft furnaces.
145.	132990	21-9-1971	Sheritt Gordon Mines Ltd., 25 King St., West, Toronto, Canada.	Device for diverting downward flow of particulate material.
146.	133025	23-9-1971	Scovill Manufacturing Co., Waterbury, New Haven, Connecticut, U.S.A.	Insert and core mechanism of a pneumatic valve.
147.	133026	23-9-1971	Do.	An improved pneumatic valve insert.
148.	133027	23-9-1971	Do.	Valves for tubeless tyres.
149.	133036	5-12-1972	The Textile & Allied Industries Research Organisation, Kala Bhavan Premises, Baroda-390001, India.	Open end spinning.
150.	133114	5-10-1971	Sperry Rand Corp., Crooks & Maple Rds., Troy, Michigan 48084, U.S.A.	Valves for fluids.

1.	2.	3.	4.	5.
151.	133127	5-10-1971	Bunker Ramo Corp., 900 Commerce Drive, Oakbrook, North, Oak Brook, Illinois, U.S.A	Controlled insertion force receptacle for flat circuit bearing element.
152.	133143	6-10-1971	Foster Wheeler Ltd., P. O. Box 62, Foster Wheeler House, Chapel St., London N.W. 1., England.	A fired heater.
153.	133144	6-10-1971	Do.	A tube guid system for heater.
154.	133146	6-10-1971	K. N. Hoogovens IJmuiden N. V., Wenckebachstraat, IJmuiden, Netherlands.	Comminuting dry material by crushing grinding or milling.
155.	133147	6-10-1971	F. L. Smith & Co A/S, 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Cooling cement clinkers.
156.	133148	6-10-1971	Do.	Drag chain.
157.	133206	11-10-1971	Pignone S. p. A., Firenze, Via Matteuchi, 2, 110 Via Brune, Buzzi, Italy.	An adjusting valve.
158.	133216	12-10-1971	Cities Service Research & Development Co., 600 Wall St., New York, N.Y.U.S.A.	Apparatus for separating liquid and vapour.
159.	133225	14-10-1971	Lyng Industrier A/S, 7120 Leksyk, Norway.	Annular expanding ring structure.
160.	133226	14-10-1971	Westinghouse Air Brake Co., Pittsburgh, Pennsylvania, U.S.A.	A fluid pressure brake equipment.
161.	133227	14-10-1971	Dunlop Holdings Ltd., Dunlop House, Ryder St., St. James, London S.W. 1., England.	Manufacture of reinforced flexible, hose.
162.	133238	15-10-1971	Cluct Peabody & Co Inc., 433 River St., Troy, New York, U.S.A.	Apparatus for compressively shrinking simultaneously a plurality of layers of fabrics.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

132817. ... Amritlal Vijnandas Shah, Harshad Ranchhodhbhai Zinzuwadia and Anil Ranchhodhbhai Zinzuwadia.

## PATENTS DATED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

## No. Title of the invention

- 132761 (11-7-72) Improvements in or relating to electro-phosphating process for the production of phosphate coating on steel.  
 132895 (19-8-72) Process for electrodepositing alumina on metals and non-metals.  
 133326 (22-10-71) Process for continuously leaching titaniferous materials.  
 134023 (21-12-71) Process for recovering ethylene oxide.  
 134099 (28-12-71) Hydrocarbon separation process.  
 134101 (28-12-71) Process for the production of cellular or porous rubber or plastics articles.

## RENEWAL FEES PAID

78449 81281 82500 82598 85493 87276 87358 87398 87556  
 87559 87847 89907 90071 91088 92410 92411 92480 92802  
 92803 92895 93301 93335 93357 93366 93368 93489 93491  
 93916 93937 93969 94043 94450 96773 98090 98411 98480  
 98802 98823 98866 99054 99058 99081 99185 99186 99203  
 99239 99246 99390 99513 99644 99764 99846 99958 100842  
 100901 101656 101684 102724 103168 103370 104324 104362  
 104476 104556 104637 104673 104675 104691 104705 104729  
 104887 104919 104954 104973 105040 105096 105097 105108  
 105707 105803 107630 107987 108038 108196 108464 108596  
 108970 109094 109095 109223 109695 109966 110061 110124  
 110149 110211 110229 110248 110259 110272 110273 110278  
 110279 110353 110354 110383 110406 110428 110642 110722  
 110754 110859 111205 111645 111939 113276 113305 113399  
 113405 113956 113926 113985 114392 114860 114954 114974  
 114996 115145 115298 115300 115361 115507 115531 115553  
 115646 115647 115937 115965 116073 116359 116708 116832  
 117096 117214 117429 117690 117876 118590 118801 119001  
 119691 119701 119702 119795 119876 119965 120171 120312  
 120397 120456 120458 120584 120685 120718 120771 120784  
 120791 120815 120845 121021 121031 121032 121055 121137  
 121172 121369 121421 122377 122428 122765 122883 123158  
 123810 124152 124663 124863 125268 125534 125528 125991  
 125999 126030 126044 126142 126177 126204 126234 126288  
 126302 126353 126411 126435 126970 127323 127337 127495  
 128733 128798 129731 129900 130296 130573 130575 130633  
 130800 130801 130859 130890 130928 130923 131036 131053  
 131046 131059 131222 131485 131491 131509 132092 132491

132523 132842 134032 134914 135042 135124 135129 135130  
 135132 135153 135195 135231 135235 135236 135328 135359  
 135603 135702 135711 135735 135787 135954 136070 136106  
 136195 136197 136204 136711 136763 136842 136938 137138  
 137143 138171 138224 138261 138297 138321 138552 138553  
 138582 138591 138678 138780 138822 139010 139040 139081  
 139134 139135 139202 139358 139488 139867 140033 140086  
 140130 140156 140275 140351 140465 140466 140570 140929  
 140953 141021 141094 141172 141241 141275 141555 141371  
 141387 141415 141529 141615 141622 141711 141733 141746  
 141769 141801 141811 141826 141842 141844 141845 141853  
 141885 141889 141890 141894 141895 141897 141901 141917  
 141976 142113

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 146110 Everfine Industries, Sued No. 1-1, D. S. I. D. C. Rohtak Road, Industrial Complex, Nangloi, New Delhi-110041, an Indian partnership concern. "Sugar dispenser". October 11, 1977.

Class 1. No. 146168. Lovson Commercial Agencies, 98, Bajaj Bhavan, Backbay Reclamation, Nariman Point, City of Bombay, State of Maharashtra, an Indian Partnership Firm. "Gas burners". October 28, 1977.

Class 13. No. 146032. P. V. S. Fabrics, an Indian Partnership Firm, at 95-A, Old Hanuman Lane, Dhanji Mulji Delf, Room No. 18, 1st Floor, Bombay-400 002, Maharashtra, India. "Textile piece-goods." September 14, 1977.

Class 13. Nos. 146040 to 146042. Mohan Exports (India) Pvt. Ltd., of 4, Feroz Gandhi Road, Lajpat Nagar-III, New Delhi-110024, India, a Company incorporated in India. "Textile piece goods". September 17, 1977.

Class 13. Nos. 146070 to 146073. Mohan Exports (India) Pvt. Ltd., of 4, Feroz Gandhi Road, Lajpat Nagar-III, New Delhi-110024, India, a Company incorporated in India. "Textile piece goods". September 28, 1977.

## COPYRIGHT EXTNDED FOR A SECOND PERIOD OF FIVE YEARS

Design No. 144771.

Class 1.

## COPYRIGHT EXTNDED FOR A THIRD PERIOD OF FIVE YEARS

Design No. 144771.

Class 1.

Design No. 131582.

Class 4.

S. VEDARAMAN  
Controller-General of Patents, Designs  
and Trade Marks.